

Release notes for ENDF/B Development g-007\_N\_014  
evaluation

**ENDF**  
**B-VII**.dev

December 2, 2016

- checkr Warnings:

1. A previous error halted parsing of the current section  
*MAT= 725, MF= 1, MT=451 (1): Parsing stopped*

```
ERROR(S) FOUND IN MAT= 725, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER 53 TO 58
```

- checkr Errors:

1. A variable is outside the allowed ENDF range  
*MAT= 725, MF= 1, MT=451 (0): Variable range*

```
ERROR(S) FOUND IN MAT= 725, MF= 1, MT=451
MOD = 1 OUT OF RANGE 0 - 0 RECORD NUMBER 53
```

2. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT= 725, MF= 3, MT= 5 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT= 725, MF= 3, MT= 5
SECTION 3/ 5 NOT IN DIRECTORY RECORD NUMBER 60
```

3. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT= 725, MF= 3, MT=102 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT= 725, MF= 3, MT=102
SECTION 3/102 NOT IN DIRECTORY RECORD NUMBER 91
```

4. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT= 725, MF= 3, MT=103 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT= 725, MF= 3, MT=103
SECTION 3/103 NOT IN DIRECTORY RECORD NUMBER 99
```

5. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT= 725, MF= 6, MT= 5 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT= 725, MF= 6, MT= 5
SECTION 6/ 5 NOT IN DIRECTORY RECORD NUMBER 108
```

- fizcon Errors:

1. Missing files (probably spectra for outgoing particles)  
*MAT -1 MF 6 (1): Missing files (a)*

```
ERROR(S) - MISSING SECTIONS IN MAT -1 MF 6
PRESENCE OF FILE 3, MT= 102 REQUIRES AN EQUIVALENT SECTION IN FILE 6
PRESENCE OF FILE 3, MT= 103 REQUIRES AN EQUIVALENT SECTION IN FILE 6
```

- fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree  
*reaction label 0: N14 + gamma / Cross section: (Error # 0): Threshold mismatch*

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7.5506e6 eV!

2. Calculated and tabulated Q values disagree.  
*reaction label 1: H1 + C13.s / Cross section: (Error # 0): Q mismatch*

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7.5506e6 eV!

WARNING: Calculated and tabulated Q-values disagree: -7219387.954271317 eV vs 0. eV!

3. Calculated and tabulated thresholds don't agree  
*reaction label 2: sumOfRemainingOutputChannels / Cross section: (Error # 0): Threshold mismatch*

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7.5506e6 eV!

4. The  $r(E)$  in Kalbach-Mann formulation is outside of allowed bounds  
*reaction label 2: sumOfRemainingOutputChannels / Product: n / Distribution: / Kalbach-Mann - KalbachMann: (Error # 0): Kalbach goof*

WARNING: Invalid 'r' in KalbachMann distribution at incident energy 1.6e7 eV. Value=1.002, should be in range 0

WARNING: Invalid 'r' in KalbachMann distribution at incident energy 1.7e7 eV. Value=1.001, should be in range 0

WARNING: Invalid 'r' in KalbachMann distribution at incident energy 1.8e7 eV. Value=1.001, should be in range 0

WARNING: Invalid 'r' in KalbachMann distribution at incident energy 1.85e7 eV. Value=1.001, should be in range 0

5. The  $r(E)$  in Kalbach-Mann formulation is outside of allowed bounds  
*reaction label 2: sumOfRemainingOutputChannels / Product: H1 / Distribution: / KalbachMann - KalbachMann: (Error # 0): Kalbach goof*

WARNING: Invalid 'r' in KalbachMann distribution at incident energy 1.5e7 eV. Value=1.008, should be in range 0

WARNING: Invalid 'r' in KalbachMann distribution at incident energy 1.6e7 eV. Value=1.016, should be in range 0

WARNING: Invalid 'r' in KalbachMann distribution at incident energy 1.7e7 eV. Value=1.036, should be in range 0

WARNING: Invalid 'r' in KalbachMann distribution at incident energy 1.8e7 eV. Value=1.175, should be in range 0

... plus 15 more instances of this message